

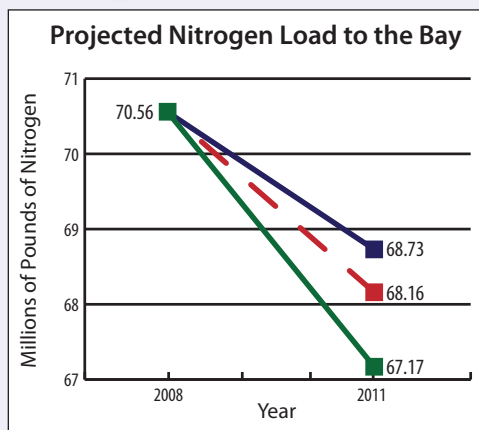
# Virginia

## 2011 Milestones to Reduce Nitrogen and Phosphorus



Chesapeake Bay Program  
A Watershed Partnership

### Nitrogen Reduction Milestone



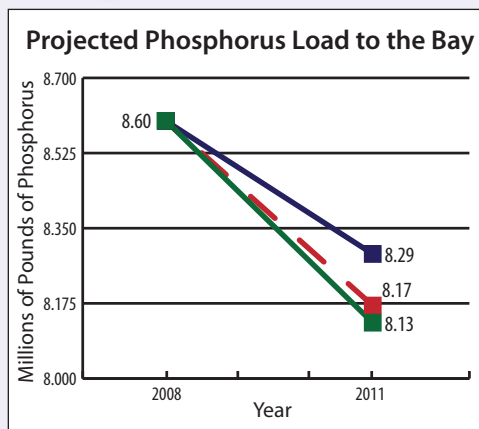
Virginia's 2011 milestone commitment is to reduce nitrogen by 3.39 million pounds over the three year period (2009-2011).

Reduction at Previous Rate of Progress	<b>Projected**</b> 1.83M
<b>Pollution Load after Previous Rate of Progress</b>	<b>68.73M</b>
Reduction after Recent Nutrient Reduction Actions	2.40M
<b>Pollution Load after Recent Nutrient Reduction Actions*</b>	<b>68.16M</b>
Reduction at Milestone Rate of Progress	3.39M
<b>Pollution Load after Milestone Rate of Progress</b>	<b>67.17M</b>
<b>Increase in Rate of Progress</b>	<b>86%</b>

M = Millions of Pounds of Nitrogen

\* Based on the current rate of progress, Virginia will fall 990,000 pounds short of its milestone to reduce 3.39 million pounds of nitrogen. To address this shortfall, Virginia will explore additional pollution reduction options (see back).

### Phosphorus Reduction Milestone



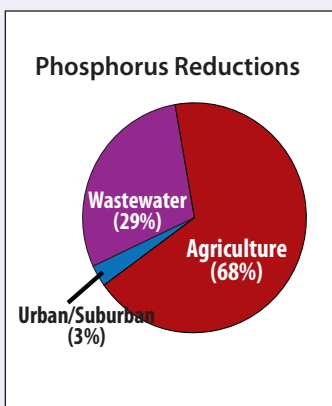
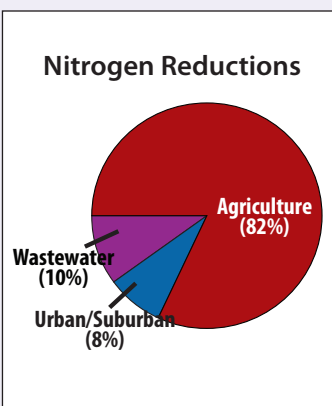
Virginia's 2011 milestone commitment is to reduce phosphorus by 470,000 pounds over the three year period (2009-2011).

Reduction at Previous Rate of Progress	<b>Projected**</b> 308,953 lbs.
<b>Pollution Load after Previous Rate of Progress</b>	<b>8.29M</b>
Reduction after Recent Nutrient Reduction Actions	435,000 lbs.
<b>Pollution Load after Recent Nutrient Reduction Actions*</b>	<b>8.17M</b>
Reduction at Milestone Rate of Progress	470,000 lbs.
<b>Pollution Load after Milestone Rate of Progress</b>	<b>8.13M</b>
<b>Increase in Rate of Progress</b>	<b>52%</b>

M = Millions of Pounds of Phosphorus

\* Based on the current rate of progress, Virginia will fall 35,000 pounds short of its milestone to reduce 470,000 pounds of phosphorus. To address this shortfall, Virginia will explore additional pollution reduction options (see back).

### Pollution Reductions by Source



### Funding During Milestone Period

Farm Bill	\$38M
Natural Resources Commitment Fund	\$26M
Water Quality Improvement Funding Nonpoint Source Program	\$35M
Virginia Agricultural BMP Tax Credit Incentives	\$1.2M
Water Quality Improvement Funding Point Source Program	\$627M
Virginia Clean Water Pollution Control Revolving Loan Fund	\$456M
Grant Funding	\$12M
<b>TOTAL</b>	<b>\$1,195,200,000</b>

\*\* Nitrogen and phosphorus reductions are based on Phase 4.3 Watershed Model data for agricultural, urban/suburban and air reductions and monitored data for wastewater reductions.

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## Recent Nutrient Reduction Actions

Significant funding and programs recently established over the last several years are in place to reduce 2.4 million pounds of nitrogen and 435,000 pounds of phosphorus by 2011.

These actions include:

1. \$61 million in funding for agricultural conservation practices in the Bay watershed.
2. \$1.08 billion in grants and loans for nutrient removal technologies at sewage treatment plant upgrades to meet and maintain pollution caps.
3. Agreements with poultry companies to achieve a 30 percent phosphorus reduction in poultry litter.
4. Acceleration of landowner participation in the Conservation Reserve and Enhancement Program (CREP).
5. Significantly increased compliance with erosion and sediment control requirements.
6. Development of aggressive stormwater control regulations.
7. Revision of poultry waste management regulations to address off-site nutrient management.

To meet the 2011 milestone, additional actions will be needed to achieve further nitrogen and phosphorus reductions -- 995,500 pounds and 35,000 pounds, respectively.

## Pollution Reduction Actions by End of 2011

### **Agriculture**

Cover Crops	119,000 acres/year
Small Grain Commodities (harvestable)	38,000 acres/year
Agricultural Nutrient Management	258,000 new acres
Conservation Tillage (NRCS)	47,500 acres/year
Continuous No-Till (State Cost-Share)	81,000 acres
Animal Waste Management Systems	241 systems
Runoff Control AWMS	32 systems
Off-stream Watering with Fencing	89,500 acres
Forest Buffers	10,000 acres
Grass Buffers	2,000 acres
Wetland Restoration	36 acres
Retirement of Highly Erodible Land	19,000 acres
Reforestation	12,500 acres
Agricultural Stream Restoration	13,000 linear feet

### **Urban/Suburban**

Stormwater Management BMPs	49,000 acres
Erosion and Sediment Control	61,000 acres
Additional Urban Nutrient Management	133,000 acres
Septic System BMPs	806 systems

### **Wastewater**

233,000 Pounds Nitrogen Reduced
126,000 Pounds Phosphorus Reduced

## Additional Reduction Options Needed to Meet Milestone Commitment

Specific actions to achieve additional nutrient pollution reductions will be a priority of Governor Kaine as he develops his biennial budget and legislative agenda. Further details will be available in late 2009.

Additional options for consideration will include funding, policies or programs designed to further encourage pollution reductions from agricultural lands, developed lands and air sources.

Virginia's five priority agricultural conservation practices have been, and will continue to be, a focus for additional nutrient pollution reductions.

- Nutrient Management Planning
- Cover Crops
- Conservation Tillage
- Riparian Buffers
- Livestock Exclusion